NOTES

1. THE CONTRACTOR SHALL CHECK ALL EXISTING MANHOLE INVERT LEVELS PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS AND REPORT HIS FINDINGS BECK TO THE ENGINEER IN WRITING.
2. CONNECTION TO THE EXISTING PUBLIC SEWER WILL BE SUBJECT TO THE RELEVANT AGREEMENTS WITH THAMES WATER. NO WORKS ARE TO COMMENCE UNTIL THESE AGREEMENTS ARE IN PLACE.

DO NOT SCALE

NOTES

THE WORKS SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING SPECIFICATION.

THE LOCATION LINE & LEVEL OF ALL KNOWN EXISTING DRAINAGE PIPEWORK INDICATED ON THE DRAWINGS ARE APPROXIMATE AND FOR GUIDANCE PURPOSES ONLY.

IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXACT LINE AND LEVEL, BY WAY OF HAND EXCAVATED TRIAL PITS, PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION WORKS ON SITE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND MAINTAIN THE STRUCTURAL INTEGRITY OF ALL ABOVE AND BELOW GROUND SERVICE INSTALLATIONS.

THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THROUGHOUT THE DURATION OF THE CONTRACT A FULL TRAFFIC MANAGEMENT SYSTEM TO ENSURE SAFE PASSAGE OF VEHICLES/PEDESTRIANS IN THE VICINITY OF THE WORKS. ALL TRAFFIC SIGNS, SIGNALS, BARRIERS ETC. SHALL BE IN ACCORDANCE WITH CHAPTER 8 OF THE TRAFFIC SIGNS MANUAL.

THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR DEALING WITH AND DISPOSING OF GROUND/SURFACE WATER ENCOUNTERED DURING EXCAVATIONS

ALL SOFT / HARD PAVED AREAS AFFECTED BY THE WORKS SHALL BE FULLY REINSTATED FOLLOWING THE INSTALLATION OF ALL DRAINAGE WORKS. ALL SURFACE MARKINGS AFFECTED BY THE WORKS SHALL BE FULLY REINSTATED.

ALL SURPLUS EXCAVATED MATERIAL SHALL BE DISPOSED OFF SITE.

UPON COMPLETION OF THE WORKS THE CONTRACTOR SHALL PROVIDE AS BUILT SETTING OUT CO-ORDINATE AND LEVEL INFORMATION.

PIPEWORK WITH LESS THAN 750mm OF COVER IN TRAFFICKED AREAS TO BE CONCRETE ENCASED. (BEDDING CLASS 2)

PIPEWORK WITH MORE THAN 750mm OF COVER TO HAVE CLASS S GRANULAR BED AND SURROUND.

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS TOGETHER WITH THE APPROPRIATE SPECIFICATION.

IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK ALL DIMENSIONS ON SITE. DIMENSIONS MUST NOT BE SCALED FROM THIS DRAWING. ANY DISCREPANCIES TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT IN WRITING.

ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS NOTED OTHERWISE.

ALL LEVELS ARE IN METRES, UNLESS NOTED OTHERWISE.

LEGEND

- EXISTING SURFACE WATER PUBLIC SEWER
- EXISTING FOUL PUBLIC SEWER
- EXISTING EASEMENT
- PROPOSED SURFACE WATER DRAIN (TYPICALLY 100Ø FROM RWP'S AND 150Ø FROM RG/SU'S UNLESS NOTED OTHERWISE)
- PROPOSED SURFACE WATER PRECAST CONCRETE MANHOLE
- PROPOSED SURFACE WATER POLYPROPYLENE INSPECTION CHAMBER
- RWP — PROPOSED RAINWATER DOWNSPOUT
- PROPOSED SURFACE WATER CELLULAR ATTENUATION SYSTEM
- PROPOSED FOUL DRAIN (TYPICALLY 100Ø UNLESS NOTED OTHERWISE)
- PROPOSED FOUL PRECAST CONCRETE MANHOLE
- PROPOSED FOUL POLYPROPYLENE INSPECTION CHAMBER
- SVP — PROPOSED SOIL VENT PIPE
- SS — PROPOSED STUBSTACK

EXISTING FOUL MANHOLE CL 37.510 IL 00.000

EXTENT OF EXISTING FOUL PUMP MAIN TO BE SURVEYED TO ESTABLISH THE SUITABILITY FOR REUSE AS PART OF THE SCHEME

CONNECT TO EXISTING FOUL PUMP MAIN IL Unknown (TBC)
THE CONTRACTOR SHALL CONFIRM THE EXACT INVERT LEVEL OF THE PUMP MAIN PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS AND REPORT BACK TO THE ENGINEER IN WRITING.

EXISTING FOUL PUMP STATION TO BE ABANDONED.

PROPOSED PRIVATE PACKAGED FOUL PUMP STATION IN ACCORDANCE WITH BS EN 12050 REQUIRED TO PUMP ON A DUTY STANDBY ARRANGEMENT. ALLOW FOR A 250mm THICK C28/35 CONCRETE BASE AND SURROUND ON 450mm THICK DOT TYPE 1 SUB-BASE. PUMP STATION TO BE COMPLETE WITH AN INTEGRAL HIGH LEVEL AUDIBLE AND VISUAL ALARM ON THE CONTROL PANEL. INSTALLATION TO BE IN ACCORDANCE WITH THE MANUFACTURES REQUIREMENTS.
CL 37.900
IL 36.010 (Inlet)
IL TBA (Outgoing Pump Main)
IL TBA (Pump Sump)

PROPOSED PUMP STATION CONTROL PANEL TO BE SECURED TO WALL WITHIN CYCLE STORE WITH HIGH LEVEL ALARM (EXACT LOCATIONS TO BE AGREED)

PROPOSED SPEL TANKSTOR 500 SERIES FOUL STORAGE TANK FOR 24 HOUR STORAGE IN THE EVENT OF PUMP STATION FAILURE.

PROPOSED PUMP MAIN (EXACT SIZE TO BE ADVISED BY PUMP MANUFACTURER)

EXISTING SURFACE WATER PUBLIC SEWER MANHOLE CL 37.860 IL 35.560 (Approx. TBC)

EXISTING SURFACE WATER PUBLIC SEWER MANHOLE CL 37.860 IL 35.560 (Approx. TBC)
THE CONTRACTOR SHALL CONFIRM THE EXACT MANHOLE INVERT LEVEL PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS AND REPORT BACK TO THE ENGINEER IN WRITING.

BREAK INTO EXISTING SURFACE WATER PUBLIC SEWER MANHOLE WITH NEW 100Ø SURFACE WATER CONNECTION
IL 35.860
CONNECTION TO THE EXISTING PUBLIC SEWER WILL BE SUBJECT TO THE RELEVANT AGREEMENTS WITH THAMES WATER.

SMH 1.0
TO BE FITTED WITH 'NAYLOR SMART SPONGE' PRIOR TO FINAL DISCHARGE INTO PUBLIC SEWER SYSTEM
CL 38.000
IL 35.885

SMH 1.1
PROVIDE VORTEX FLOW CONTROL DEVICE TO OUTFALL PIPEWORK TO LIMIT FORWARD FLOW TO 5 LITRES PER SECOND AT 1.34m HEAD.
CL 37.755
IL 35.950 (3000 In)
IL 35.950 (100Ø In)
IL 34.300 (Sump TBC)
(SUMP DEPTH SUBJECT TO CONFIRMATION FROM FLOW CONTROL SUPPLIER).

SMH 2.0
CATCH PIT WITH REMOVABLE FILTER
CL 38.205
IL 37.480 (225Ø)
IL 36.980 (Sump)

IL 37.075 (225Ø)
IL 35.980 (Base of Unit)

FMH 4.0
CL 38.800
IL 36.630 (100Ø)
IL 36.580 (150Ø)

PROPOSED 2 NUMBER CELLULAR ATTENUATION SYSTEMS CONNECTED VIA A 300Ø PIPE LAID FLAT TO ACHIEVE A VOLUME OF 280m³ TO CATER FOR THE 1 IN 100 YEAR EVENT +40% FOR CLIMATIC CHANGE. CELLULAR ATTENUATION SYSTEM TO BE FULLY ENCAPSULATED WITH A 1mm THICK IMPERMEABLE MEMBRANE. ALL JOINTS TO BE FULLY WELDED. ALLOW FOR PROVIDING VENT PIPES (EXACT NUMBER AND LOCATIONS TO BE AGREED). ACCESS POINTS AND INSTALLATION TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
CL 37.800
IL 37.300 (Top of Unit)
IL 35.980 (Base of Unit)

SMH 4.0
CATCH PIT WITH REMOVABLE FILTER
CL 37.800
IL 38.050 (150Ø)
IL 37.550 (Sump)

SMH 3.0
CATCH PIT WITH REMOVABLE FILTER
CL 37.800
IL 38.050 (150Ø)
IL 37.975 (225Ø)
IL 37.475 (Sump)

SMH 1.2
CATCH PIT WITH REMOVABLE FILTER
CL 37.800
IL 37.200 (150Ø)
IL 37.050 (300Ø)
IL 36.550 (Sump)

IL 37.000 (300Ø)
IL 35.980 (Base of Unit)

FMH 4.1
CL 37.800
IL 37.030 (Side In)
IL 36.975 (Outlet)

FMH 4.1
CL 36.835 (Side In)
IL 36.780 (Outlet)

SMH 1.3
CL 37.800
IL 37.415 (150Ø)
IL 37.340 (225Ø)
IL 37.265 (300Ø)

SMH 1.4
CL 38.760
IL 37.620 (150Ø)
IL 37.545 (225Ø)

SMH 1.5
CL 38.380
IL 37.730 (150Ø)
IL 37.655 (225Ø)

FMH 1.8
CL 38.800
IL 38.060 (Side In)
IL 37.985 (Outlet)

FMH 1.6
CL 38.800
IL 37.775 (Inlet
IL 37.835 (Side In)
IL 37.760 (Outlet)

FMH 1.5
CL 38.800
IL 37.705 (100Ø)
IL 37.655 (150Ø)

FMH 1.4
CL 38.800
IL 37.640 (100Ø)
IL 37.590 (150Ø)

FMH 1.3
CL 38.800
IL 37.570 (100Ø)
IL 37.520 (150Ø)

FMH 1.2
CL 38.800
IL 37.480 (100Ø)
IL 37.430 (150Ø)

FMH 1.1
CL 38.800
IL 37.405 (Backdrop)
IL 36.225 (150Ø)
IL 36.172 (150Ø)

FMH 2.0
CL 38.800
IL 37.740 (Backdrop)
IL 36.255 (100Ø)
IL 36.205 (150Ø)

FMH 2.1
CL 38.800
IL 36.335 (100Ø)
IL 36.285 (150Ø)

FMH 2.2
CL 38.800
IL 36.385 (100Ø)
IL 36.335 (150Ø)

FMH 2.3
CL 37.800
IL 36.510 (100Ø)
IL 36.460 (150Ø)

FMH 2.3
CL 37.800
IL 37.030 (Inlet)
IL 37.090 (Side In)
IL 37.015 (Outlet)

SMH 2.0
CL 38.580
IL 38.110 (150Ø)
IL 38.035 (225Ø)

RODDING EYE
CL 38.580
IL 38.125

RODDING EYE
CL 38.770
IL 38.185

PRELIMINARY

P1	31-01-18	DRL	ISSUED FOR INFORMATION	MCH	MCH

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WATKIN JONES

STRIDE TREGLOWN

THAMES QUARTER, READING

FOUL AND SURFACE WATER DRAINAGE LAYOUT

SCALE	DRAWN	CHECKED
1:125 @ A0	MCH	MCH
DWG NO	DATE	
-	DRL	JAN'18

JOB NO	DRAWING NO	REVISION
T/17/2008	55-01	P1